Special Issue

Nrf2 Signaling Pathway in Cardiovascular Health and Disease

Message from the Guest Editor

Nrf2, a transcription factor, has been extensively studied since it was cloned in 1994. It controls the basal and induced expression of over 1000 genes in cells that can be clustered into several functional categories ranging from redox homeostasis and detoxification to metabolism and protein quality control. The historical view of Nrf2-mediated cellular defense has been challenged by the emerging evidence of Nrf2-mediated cell death, revealing Nrf2-mediated dichotomy in a context-dependent manner in various tissues and organs, including the cardiovascular system. This Special Issue will examine Nrf2-mediated cardiovascular protection and damage as well as the underlying molecular mechanisms, therapeutic potential of targeting Nrf2 in treating cardiovascular disease, and current gaps and future directions for Nrf2 signaling research in the cardiovascular system. **Keywords:** Nrf2; Keap1; redox signaling; proteasomal degradation; autophagy; metabolism; cell death; vascular disease; heart disease; drug target

Guest Editor

Dr. Taixing Cui

Department of Medical Pharmacology & Physiology, School of Medicine, University of Missouri, Columbia, MO 65211, USA

Deadline for manuscript submissions

closed (30 November 2022)

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/si/109950

Cells
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
cells@mdpi.com

mdpi.com/journal/cells

Cells

an Open Access Journal by MDPI

Impact Factor 5.2
CiteScore 10.5
Indexed in PubMed

mdpi.com/journal/cells

MDPI

About the Journal

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cell Biology) / CiteScore - Q1 (General Biochemistry, Genetics and Molecular Biology)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).